



CITY OF LOUISVILLE BUILDER ASSISTANCE PROGRAM

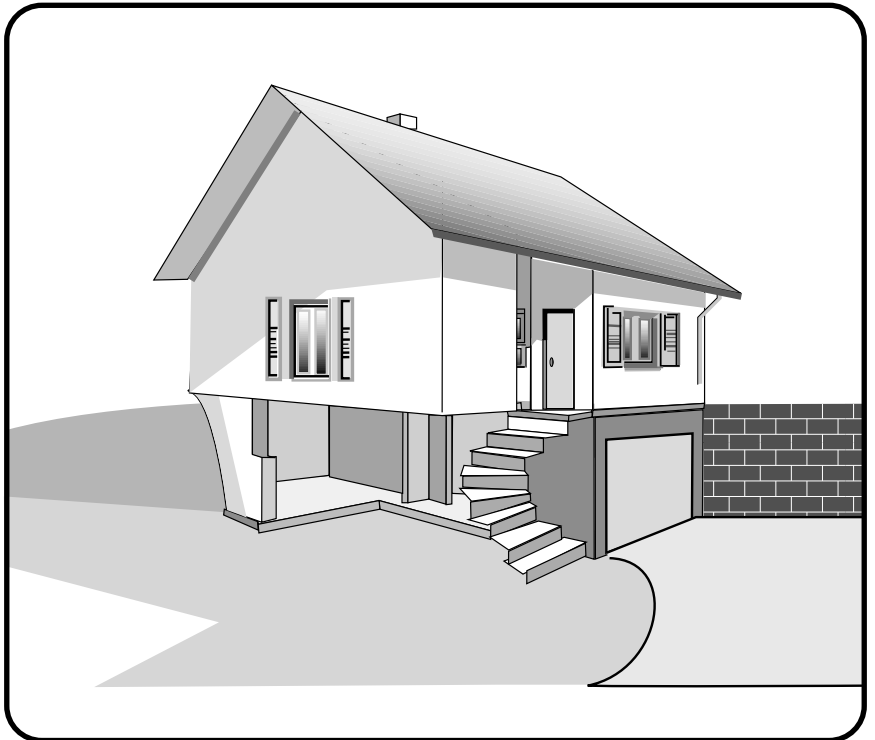
FINISHING A BASEMENT

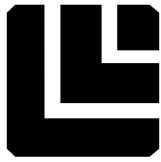
The City of Louisville "Builder Assistance Program" is intended to help contractors and the general public understand the requirements for building certain projects within the City and provide guidelines for obtaining a building permit.

Your submittal information for a Building Permit must include the following information:

- 1. Fill out a building permit application** as completely and accurately as possible. Application forms for building permits may be obtained at the Building Division Counter. Please note if a contractor is to be employed, they must be licensed with the City of Louisville and noted on the application.
- 2. Provide two (2) copies of construction plans or this Building Guide** with the appropriate blanks filled in indicating construction details.

The majority of permit applications are processed with little delay. The submitted documents will help determine if the project is in compliance with building safety codes, zoning ordinances and other applicable laws. The more complete and accurate the submittal, the easier and quicker it is to approve plans and issue a permit. Please note that the City does not review plans for compliance with subdivision covenant agreements. You should contact your home owners association for specific restrictions.





CITY OF LOUISVILLE

BUILDER ASSISTANCE PROGRAM

FINISHING A BASEMENT

Building permits must be obtained from the City's Building Division prior to starting your project.

Construction plans or the completed Building Guide must be submitted with your permit application for approval before a building permit may be issued. Approved project plans must be kept on the job site and available to the inspector for review at the time of inspection and should be followed as closely as possible during the construction of the project. Any changes or modifications you may wish to make to your plans after they have been reviewed and approved by the City must be submitted to the Building Division for approval prior to proceeding with your changes.

Your construction plans must include:

A floor plan showing room uses, dimensions, ceiling heights, size and location of all doors, windows, and all egress window well details (section view), and the location and details of any existing finished areas.

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An electrical plan showing the location of all switches, outlets, light fixtures, and any other appliance or fixture requiring electrical power.

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A plumbing plan, if applicable, showing the location of all plumbing fixtures and the size and location of all waste, vent, and water piping serving such fixtures.

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A mechanical plan showing furnace and water heater location, supply and return air ducts, required combustion air ducts, dryer vents, bath fans and ducts, and any other changes or additions to your heating or ventilation system.

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Note: Electrical, plumbing, and mechanical plans may be drawn separately or combined with the floor plan.

With the issuance of a building permit, each permittee will be issued an inspection record card for the City Building Inspector to enter the results of each required inspection. **During the construction of your project, it will be necessary for you to call the Building Division and request all inspections required for your particular project.**

Basements require the following inspections:

- ☐1. **Underground Plumbing**
- ☐2. **Rough Electrical, Framing, Plumbing and Mechanical**
- ☐3. **Insulation**
- ☐4. **Wallboard**
- ☐5. **Above Ceiling**

IMPORTANT NOTE

When the valuation of construction work on an existing structure exceeds \$1000 the entire structure must be brought into compliance with UBC section 310, re: smoke detectors. Install smoke detectors on ceiling as follows:

One detector in each sleeping room AND one detector centrally located in each corridor or area giving access to each separate sleeping area AND one detector on each floor, story, and/or basement.

In split levels - One detector on upper level, unless lower level contains a sleeping area, then one detector per level.

In split levels with sleeping room on upper level, place detector on ceiling near stairway.

If the ceiling height of a room is 24" or more higher than the ceiling of an adjacent hallway which serves a sleeping room then a detector must be installed in both hallway and room.

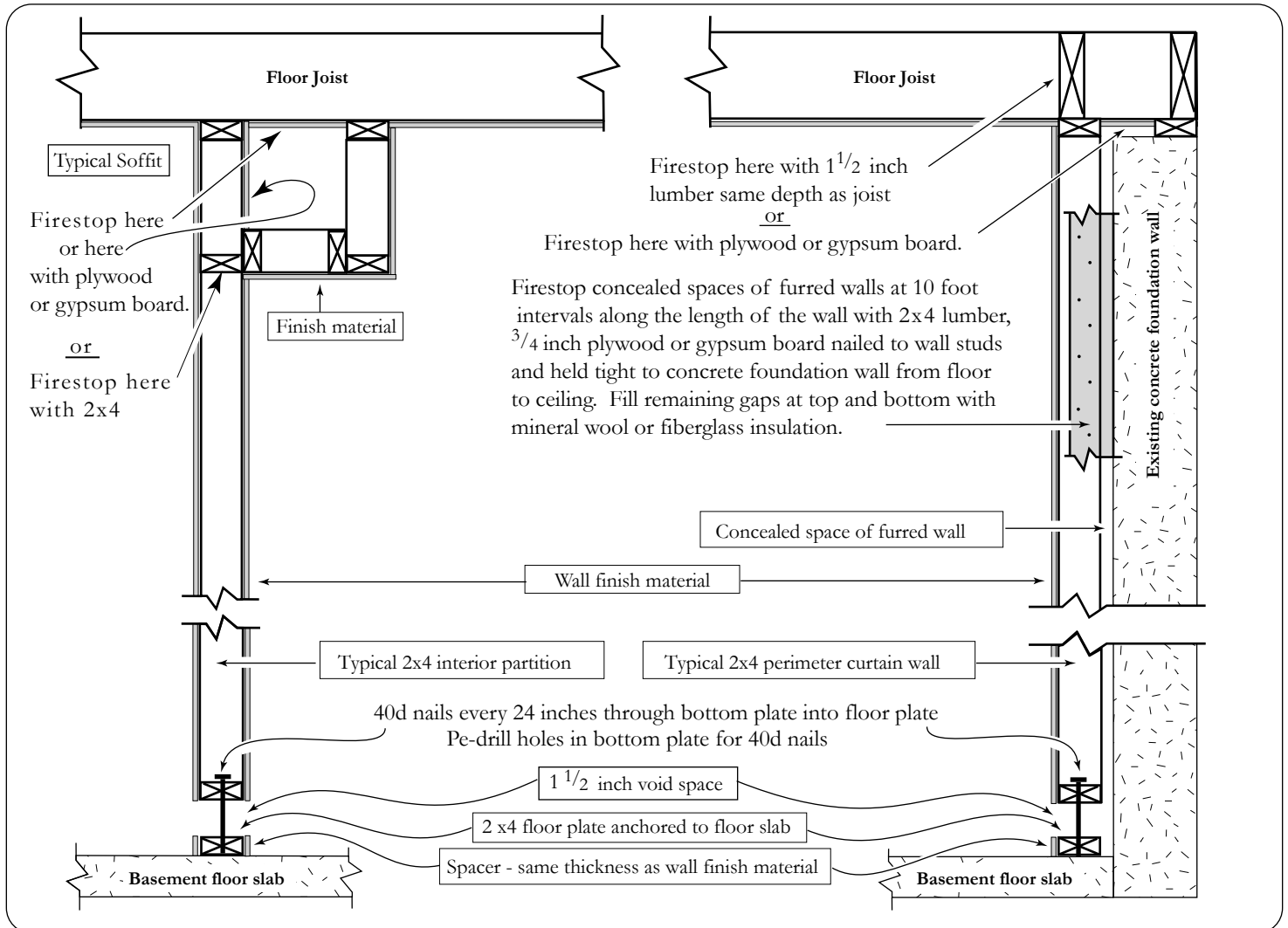
Smoke detectors must be audible in all sleeping areas. Smoke detectors may be solely battery operated when installed in existing buildings.

Our staff is here to assist you in building a safe and durable structure.

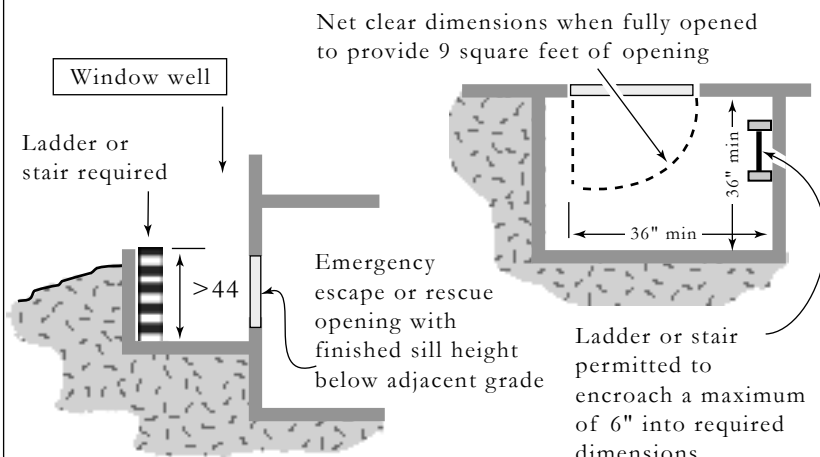
☐ You may contact the City of Louisville Building Safety Division at (303) 666-6565 Ext.154.

Appointments for inspections must be scheduled by calling Ext. 153.

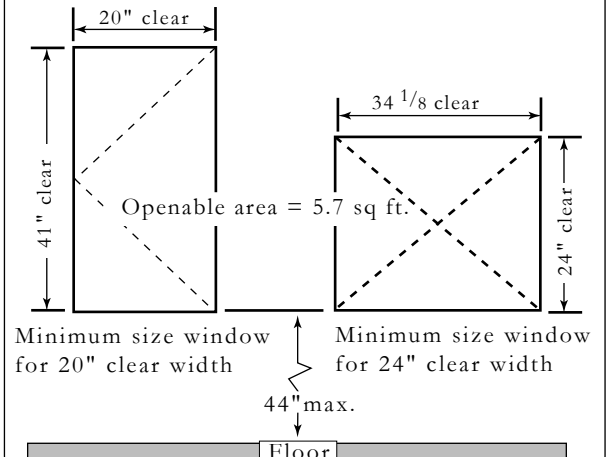
Visit our website at www.ci.louisville.co.us



EGRESS WINDOW WELL



EMERGENCY ESCAPE & RESCUE WINDOW

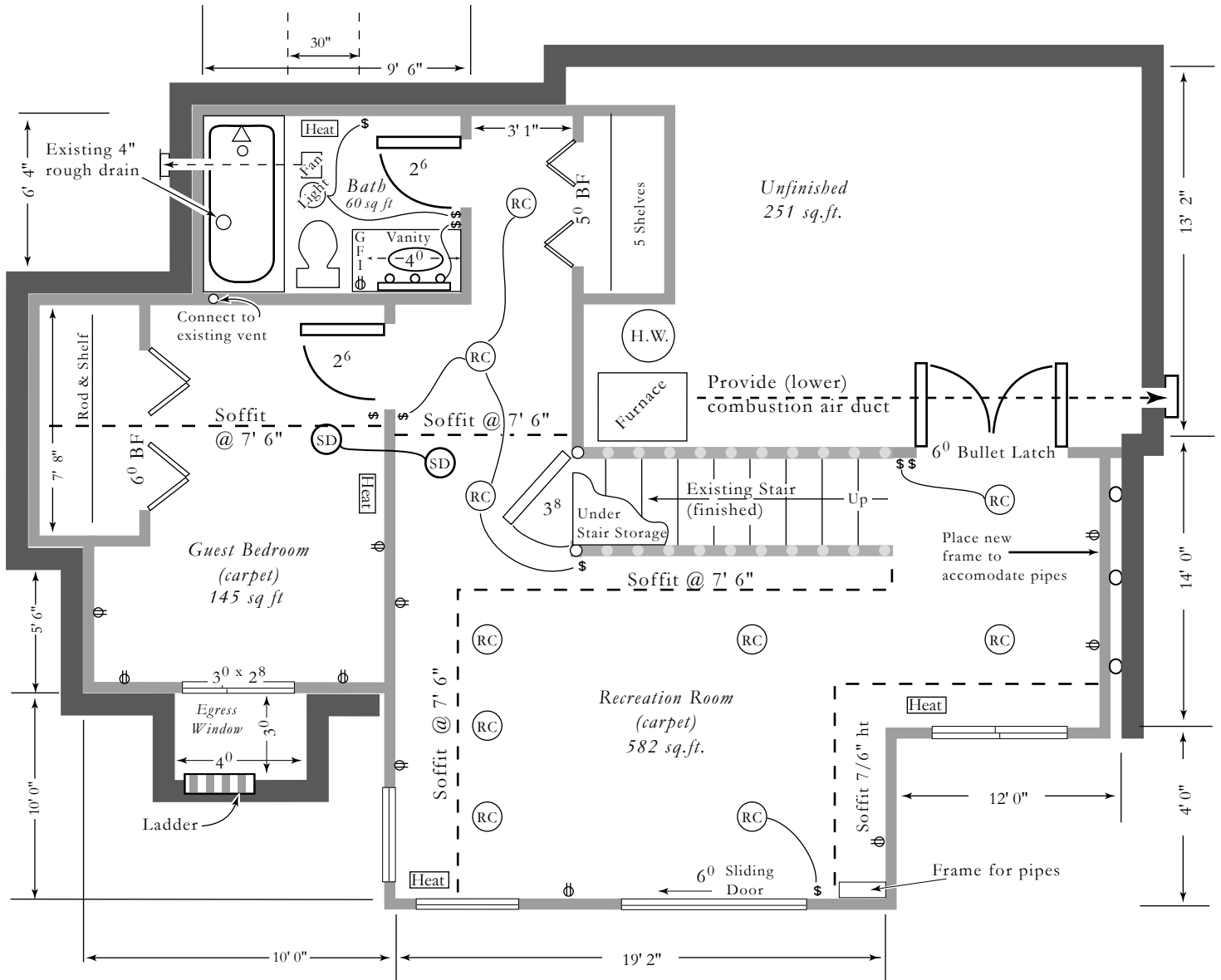




City of Louisville

Building Safety Division

BASEMENT SAMPLE FLOOR PLAN



Existing Basement Wall

New Frame Wall



SEC. 701.1 AIR SUPPLY. Fuel-burning equipment shall be assured a sufficient supply of combustion air. The methods of providing combustion air in this chapter do not apply to direct-vent appliances, appliances listed as having separated combustion, listed cooking appliances, refrigerators and domestic clothes dryers.

Sec. 702.1 LOCATION. One opening shall be located within the upper 12 inches of the enclosure and one opening shall be located within the lower 12 inches of the enclosure.

TABLE 7-A
SIZE OF COMBUSTION-AIR OPENINGS OR DUCTS

CONDITION	SIZE OF OPENING OR DUCTS x 0.293 for W x 645.2 for mm ²
<input type="checkbox"/>	<input type="checkbox"/>
Appliance in unconfined space: Obtain combustion air from outdoors or from space freely communicating with outdoors.	<input type="checkbox"/> Provide two openings, each having 1 sq.in. per 5,000 Btu/h input. Ducts admitting outdoor air may be connected to the cold-air return.
<input type="checkbox"/> Appliance in confined space: Obtain combustion air from outdoors or from space freely communicating with outdoors. <input type="checkbox"/>	<input type="checkbox"/> 1. Provide two vertical ducts or plenums; 1 sq.in. per 4,000 Btu/h input each duct or plenum. 2. Provide two horizontal ducts or plenums; 1 sq.in. per 2,000 Btu/h input each duct or plenum. 3. Provide two openings in an exterior wall of the enclosure; each opening 1 sq.in. per 4,000 Btu/h input. 4. Provide one ceiling opening to ventilated attic and one vertical duct to attic; each opening 1 sq.in. per 4,000 Btu/h input. 5. Provide one opening or one vertical duct or one horizontal duct in the enclosure; 1 sq.in. per 3,000 Btu/h input but no smaller than vent flow area. (See Table 7-B, next page) 6. Provide one opening in enclosure ceiling to ventilated attic and one opening in enclosure floor to ventilated crawl space; each opening 1 sq.in. per 4,000 Btu/h input.

Unconfined Space: A room or space having a volume equal to at least 50 cubic feet per 1,000 Btu/h (4.831 L/W) of the aggregate input rating of all fuel-burning appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

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Confined Space: A room or space having a volume less than 50 cubic feet per 1,000 Btu/h (4.83 L/W) of the aggregate input rating of all fuel-burning appliances installed in that space.

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EXCEPTION: When all air is taken from the outdoors for an appliance with a minimum clearance of 1 inch on the sides and back and 6 inches on the front, one opening shall be permitted and located within the upper 12 inches of the enclosure.

The one opening can be sized per Table 7-A as follows: "5. Provide one opening or one vertical duct or one horizontal duct in the enclosure; 1 sq. in. per 3000 Btu/h input but no smaller than vent flow area." The following table shows the required outside air duct size to be used for this type of installation.

TABLE 7-B

DUCT SIZE (Round)	CROSS SECTIONAL AREA	MAX BTU INPUT
4"	12.6 Sq. In.	37800 Btu/h
5"	19.6 Sq. In.	58800 Btu/h
6"	28.3 Sq. In.	84900 Btu/h
7"	38.5 Sq. In.	115500 Btu/h
8"	50.2 Sq. In.	150600 Btu/h
9"	63.6 Sq. In.	190800 Btu/h
10"	78.5 Sq. In.	235500 Btu/h